

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.:

Patent No.:

Filed:

Issue Date:

Title:

Commissioner for Patents  
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**  
**(REVOCATION OF PRIOR POWERS)**

As assignee of record of each of the patents listed in the table of attachment A,

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given in each of the listed patents are hereby revoked, and

**NEW POWER OF ATTORNEY**

the following attorneys/agents are hereby appointed to prosecute this patent/application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this patent/application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

**15650**

Patent Trademark Office

Please direct all future correspondence and telephone calls to:

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**THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.**  
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Atlanta, Georgia 30339  
770-933-9500

**ASSIGNEE OF ENTIRE INTEREST**

**BROADCOM CORPORATION**

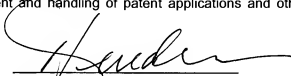
5300 California Avenue  
Irvine, California 92617-3038

**ASSIGNEE CERTIFICATION**

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Broadcom Corporation, I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: \_\_\_\_\_

9/12/11

  
\_\_\_\_\_  
**Dee Henderson**  
Director - Intellectual Property Administration  
Broadcom Corporation

## ATTACHMENT A

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
1	7,054,805	BU2689	METHOD AND SYSTEM FOR ALLOCATING MEMORY DURING ENCODING OF A DATASTREAM	5/30/2006	013991/0706
2	7,301,902	BU2775	GENERIC ON-CHIP HOMING AND RESIDENT, REAL-TIME BIT EXACT TESTS	11/27/2007	014060/0087
3	7,680,042	BU2775D1C1	GENERIC ON-CHIP HOMING AND RESIDENT, REAL-TIME BIT EXACT TESTS	3/16/2010	022588/0679
4	7,149,305	BU2900	COMBINED SIDETONE AND HYBRID BALANCE	12/12/2006	014129/0728
5	7,528,889	BU2922C1	SYSTEM, METHOD, AND APPARATUS FOR DISPLAYING STREAMS WITH DYNAMICALLY CHANGING FORMATS	05/05/2009	013980/0291
6	7,190,775	BU2923	HIGH QUALITY AUDIO CONFERENCING WITH ADAPTIVE BEAMFORMING	3/13/2007	014331/0522
7	7,116,742	BU1225C1	TIMING RECOVERY SYTEM FOR A MULTI-PAIR GIGABIT TRANSCEIVER	10/3/2006	016450/0334
8	7,844,019	BU1225C2	TIMING RECOVERY SYTEM FOR A MULTI-PAIR GIGABIT TRANSCEIVER	10/03/2006	016450/0334

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
9	7,535,836	BU2746	METHOD AND SYSTEM TO PROVIDE WORD-LEVEL FLOW CONTROL USING SPARE LINK BANDWIDTH	5/19/2009	0014423/0227
10	7,542,465	BU2788	OPTIMIZATION OF DECODER INSTANCE MEMORY CONSUMED BY THE JITTER CONTROL MODULE	6/2/2009	013755/0867
11	7,602,815	BU2954	USING NETWORK TIME PROTOCOL IN VOICE OVER PACKET TRANSMISSION	10/13/2009	014199/0933
12	7,382,924	BU3141	PIXEL REORDERING AND SELECTION LOGIC	6/3/2008	014252/0094
13	7,562,024	BU3142	STORING MACROBLOCKS FOR CONCATENATED FRAMES	4/28/2009	015234/0736
14	7,970,262	BU3149C1	BUFFER DESCRIPTOR STRUCTURES FOR COMMUNICATION BETWEEN DECODER AND DISPLAY MANAGER	06/28/2011	014217/0172
15	7,227,587	BU2860	SYSTEM AND METHOD FOR THREE DIMENSIONAL COMB FILTERING	6/5/2007	014716/0211
16	7,113,221	BU2862	METHOD AND SYSTEM FOR CONVERTING INTERLACED FORMATTED VIDEO TO PROGRESSIVE SCAN VIDEO	9/26/2006	014390/0879

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
17	7,280,155	BU2862C1	METHOD AND SYSTEM FOR CONVERTING INTERLACED FORMATTED VIDEO TO PROGRESSIVE SCAN VIDEO	10/09/2007	014390/0879
18	7,307,669	BU2922	SYSTEM, METHOD, AND APPARATUS FOR DISPLAYING STREAMS WITH DYNAMICALLY CHANGING FORMATS	12/11/2007	013980/0291
19	7,574,059	BU2931	SYSTEM, METHOD, AND APPARATUS FOR PROVIDING MASSIVELY SCALED DOWN VIDEO USING ICONIFICATION	8/11/2009	016291/0584
20	7,865,361	BU2958	VOICE QUALITY ANALYSIS TECHNIQUE	1/4/2011	014147/0255
21	7,193,656	BU3140.1	LINE ADDRESS COMPUTER FOR PROVIDING COEFFICIENTS TO A CHROMA FILTER	3/20/2007	014381/0066
22	7,301,582	BU3140.2	LINE ADDRESS COMPUTER FOR PROVIDING LINE ADDRESSES IN MULTIPLE CONTEXTS FOR INTERLACED TO PROGRESSIVE CONVERSION	11/27/2007	014375/0019
23	7,702,021	BU3159	DECODING OF DIGITAL VIDEO STANDARD MATERIAL DURING VARIABLE LENGTH DECODING	4/20/2010	014757/0887

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
24	7,333,714	BU3338	METHOD AND SYSTEM FOR PERFORMING REVERSE PLAY OF SD MPEG VIDEO	2/19/2008	014647/0021
25	7,653,135	BU3378	MPEG FIELD DATA-DRIVEN DISPLAY	1/26/2010	016297/0268
26	7,689,852	BU3271	METHOD AND SYSTEM FOR PROVIDING POWER MANAGEMENT FOR AN INTEGRATED GIGABIT ETHERNET CONTROLLER	3/30/2010	015115/0655
27	7,565,462	BU2007.1C	MEMORY ACCESS ENGINE HAVING MULTI-LEVEL COMMAND STRUCTURE	07/21/2009	014295/0066
28	7,920,624	BU2017.1	INVERSE QUANTIZER SUPPORTING MULTIPLE DECODING PROCESSES	4/5/2011	014309/0949
29	7,630,566	BU2065	METHOD AND APPARATUS FOR IMPROVED ESTIMATION AND COMPENSATION IN DIGITAL VIDEO COMPRESSION AND DECOMPRESSION	12/8/2009	013424/0660
30	7,111,127	BU3059	SYSTEM FOR SUPPORTING UNLIMITED CONSECUTIVE DATA STORES INTO A CACHE MEMORY	9/19/2006	014558/0363

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
31	7,472,057	BU3098	DETECTOR FOR USE IN VOICE COMMUNICATIONS SYSTEMS	12/30/2008	014340/0616
32	7,133,046	BU3148	SYSTEM, METHOD, AND APPARATUS FOR DISPLAY MANAGER	11/7/2006	014217/0180
33	7,843,825	BU5783	METHOD AND SYSTEM FOR PACKET RATE SHAPING	11/30/2010	020377/0001
34	7,869,779	BU5868	METHOD AND SYSTEM FOR PROCESSING CHANNELS IN A FM COMMUNICATION SYSTEM	1/11/2011	019536/0395
35	7,873,332	BU5915	METHOD AND SYSTEM FOR MITIGATING A VOLTAGE STANDING WAVE RATIO	1/18/2011	018886/0616
36	6,990,195	BU1353	VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK WITH RESOURCE MANAGEMENT	1/24/2006	011160/0310
37	6,795,088	BU1574.1	METHOD AND SYSTEM FOR MORE EFFICIENTLY UTILIZING PROCESSORS OF A GRAPHICS SYSTEM	9/21/2004	012811/0558

No.	Patent No.	BD No.	Patent Title	Issue Date	Assignment to BD (Reel/Frame)
38	6,621,362	BU1815	VARACTOR BASED DIFFERENTIAL VCO BAND SWITCHING	9/16/2003	011835/0144
39	6,927,606	BU1883D1	Low voltage differential to single- ended converter		011743/0686